CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

QC ABSTRACT

Nameof Work: Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore

SI. No.	Item	Quantity As Per BOQ	Required No's of testes as per Frequency	Actual No's of testes as per Frequency	Testes Results
1	Materials(1:3:6)	20.52 Cum	1	1	Pass
2	Steel	2.65 Tonne	1	1	Pass
3	M10	2.7 Cum	1	1	Pass
4	M20	44.1 Cum	4	4	Pass
5	DLC	182.25 Cum	1	1	Pass
6	M30	182.25 Cum	7	7	Pass
7	Slab - 100mm	105.00 Sqm	1	1	Pass
8	Slab - 250mm	9.00 Sqm	1	1	Pass

Cubes
0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Wilde Poorna Praina School,

CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/SMV/W.No.10/2023-24 Date : 10.03.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**

Agency **Sri. S.M.Varadarajappa, Contractor, Bangalore.**

Name of Work Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore

Date of Testing : 10.03.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	72	7.20	7.20	92.8	90-100
2.36	155	15.50	22.70	77.3	75-100
1.18	175	17.50	40.20	59.8	55-90
600 Micron	162	16.20	56.40	43.6	35-59
300 Micron	240	24.00	80.40	19.6	8-30
150 Micron	121	12.10	92.50	7.5	0-10

Note:

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Authorised Signatory

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Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/SMV/W.No.10/2022-23 Date: 10.03.2023

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. S.M.Varadarajappa,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore
SAMPLE ID	:	Cement (Dalmia OPC 53 Grade)
DATE OF MANUFACTURE	:	February -2023
DATE OF TESTING	:	08.03.2023 to 10.03.2023
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	2 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

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Bangalore

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Job No.: CACE/BBMP/SMV/W.No.10/2023-24 Date : 10.03.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**

Agency **Sri. S.M.Varadarajappa, Contractor, Bangalore.**

Name of Work Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore

Date of Testing : 10.03.2023

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	187	3.7	3.7	96.3	95-100
10	2451	49.0	52.8	47.2	25-55
4.75	1963	39.3	92.0	8.0	0-10

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Job No.: CACE/BBMP/SMV/W.No.10/2023-24 Date : 10.03.2023

TEST REPORT ON COARSE AGGREGATES

Client	**: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Agency	**Sri. S.M.Varadarajappa, Contractor, Bangalore.**
Name of Work	Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore
Date of Testing	: 10.03.2023
IS Code	: IS 383:2016
	: IS 2386 (Part 1):1963(RA 2011)
Material	: 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	175	1.17	1.17	98.83	95-100
20	8359	55.73	56.89	43.11	30-70
10	3245	21.63	78.53	21.47	10-35
4.75	2795	18.63	97.16	2.84	0-5

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Job No.: CACE/BBMP/SMV/W.No.10/2022-23 Date :15.03.2023

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**

Agency **Sri. S.M.Varadarajappa, Contractor, Bangalore.**

Name of Work Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore

Steel Dia/Length : 8mm,10mm,12mm " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test :15.03.2023

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.399	541	632	1.17	14
2	TMT	10	0.621	548	640	1.17	14.5
3	TMT	12	0.889	555	648	1.17	15.5

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Authorised Signatory

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Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/SMV/W.No.10/2022-23 Date: 27.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Agency	**Sri. S.M.Varadarajappa, Contractor, Bangalore.**
Name of the work	Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2023	27.03.2023	8.115	334.1	14.85
2	20.03.2023	27.03.2023	8.125	342.9	15.24
3	20.03.2023	27.03.2023	8.140	338.5	15.04

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Authorised Signatory

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Kodigehalli Sub Division
BBMP, Bangalore

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Job No.: CACE/BBMP/SMV/W.No.10/2023-24 Date: 17.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Agency	**Sri. S.M.Varadarajappa, Contractor, Bangalore.**
Name of the work	Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2023	17.04.2023	8.168	502.4	22.33
2	20.03.2023	17.04.2023	8.170	503.5	22.38
3	20.03.2023	17.04.2023	8.172	503.1	22.36

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/SMV/W.No.10/2022-23 Date: 27.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Agency	**Sri. S.M.Varadarajappa, Contractor, Bangalore.**
Name of the work	Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2023	27.03.2023	8.120	339.1	15.07
2	20.03.2023	27.03.2023	8.145	343.1	15.25
3	20.03.2023	27.03.2023	8.152	348.5	15.49

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Job No.: CACE/BBMP/SMV/W.No.10/2023-24 Date: 17.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Agency	**Sri. S.M.Varadarajappa, Contractor, Bangalore.**
Name of the work	Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2023	17.04.2023	8.175	503.2	22.36
2	20.03.2023	17.04.2023	8.182	511.9	22.75
3	20.03.2023	17.04.2023	8.167	500.9	22.26

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Job No.: CACE/BBMP/SMV/W.No.10/2022-23 Date: 30.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. S.M.Varadarajappa, Contractor, Bangalore.**

Name of the work : Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2023	30.03.2023	8.127	333.6	14.83
2	23.03.2023	30.03.2023	8.151	345.2	15.34
3	23.03.2023	30.03.2023	8.168	345.8	15.37

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Job No.: CACE/BBMP/SMV/W.No.10/2023-24 Date: 20.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Agency	**Sri. S.M.Varadarajappa, Contractor, Bangalore.**
Name of the work	Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2023	20.04.2023	8.172	502.5	22.33
2	23.03.2023	20.04.2023	8.169	503.6	22.38
3	23.03.2023	20.04.2023	8.181	514.9	22.88

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Job No.: CACE/BBMP/SMV/W.No.10/2022-23 Date: 30.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**

Agency **Sri. S.M.Varadarajappa, Contractor, Bangalore.**

Name of the work Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2023	30.03.2023	8.141	341.3	15.17
2	23.03.2023	30.03.2023	8.157	348.2	15.48
3	23.03.2023	30.03.2023	8.179	348.7	15.50

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Client	**Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Agency	**Sri. S.M.Varadarajappa, Contractor, Bangalore.**
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Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2023	30.03.2023	8.141	341.3	15.17
2	23.03.2023	30.03.2023	8.157	348.2	15.48
3	23.03.2023	30.03.2023	8.179	348.7	15.50

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Job No.: CACE/BBMP/SMV/W.No.10/2022-23 Date : 10.03.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**

Agency **Sri. S.M.Varadarajappa, Contractor, Bangalore.**

Name of Work Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore

Date of Testing : 10.03.2023

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	17	1.70	1.70	98.3	90-100
1.18	69	6.90	8.60	91.4	70-100
600 Micron	128	12.80	21.40	78.6	40-100
300 Micron	234	23.40	44.80	55.2	5-70
150 Micron	498	49.80	94.60	5.4	0-15

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Job No.: CACE/BBMP/SMV/W.No.10/2022-23 Date: 28.03.2023

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**

Contractor : **Sri. S.M.Varadarajappa, Contractor, Bangalore.**

Name of the work : Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.03.2023	28.03.2023	8.119	168.9	7.51
2	21.03.2023	28.03.2023	8.134	170.2	7.56
3	21.03.2023	28.03.2023	8.141	171.7	7.63

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.

CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/SMV/W.No.10/2022-23 Date: 18.04.2023

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**

Contractor : **Sri. S.M.Varadarajappa, Contractor, Bangalore.**

Name of the work : Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.03.2023	18.04.2023	8.180	276.3	12.28
2	21.03.2023	18.04.2023	8.199	279.1	12.40
3	21.03.2023	18.04.2023	8.201	281.3	12.50

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Kodigehalli Sub Division
BBMP, Bangalore

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/SMV/W.No.10/2023-24 Date: 26.04.2023

PRECAST SLAB 100 mm Thick(CORE) TEST REPORT

Client	:	**: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Contractor	:	**Sri. S.M.Varadarajappa, Contractor, Bangalore.**
Name of Work	:	Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore
No.of Sample Tested	:	03
Date of Testing	:	26.04.2023
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.377	2461.60	1.56	0.952	25.50	12.99	14.03	13.36	16.70
2	50.00	80.00	0.381	2425.52	1.60	0.957	26.20	13.34	14.41	13.79	17.24
3	50.00	82.00	0.394	2447.10	1.64	0.961	26.80	13.65	14.74	14.17	17.71

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o. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,

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Job No.: CACE/BBMP/SMV/W.No.10/2023-24

Date: 26.04.2023

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	**: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Contractor	:	**Sri. S.M.Varadarajappa, Contractor, Bangalore.**
Name of Work	:	Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore
No.of Sample Tested	:	03
Date of Testing	:	26.04.2023
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M15

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	111.00	1.751	2479.64	1.23	0.917	82.20	12.92	13.95	12.80	16.00
2	90.00	112.00	1.762	2472.94	1.24	0.918	83.30	13.09	14.14	12.99	16.23
3	90.00	113.00	1.781	2477.48	1.26	0.920	81.90	12.87	13.90	12.79	15.98

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Authorised Signatory

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Kodigehalli Sub Division
BBMP, Bangalore

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Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/SMV/W.No.10/2023-24 Date: 20.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Agency	**Sri. S.M.Varadarajappa, Contractor, Bangalore.**
Name of the work	Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2023	20.04.2023	8.165	506.3	22.50
2	23.03.2023	20.04.2023	8.128	498.6	22.16
3	23.03.2023	20.04.2023	8.146	519.6	23.09

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Job No.: CACE/BBMP/SMV/W.No.10/2023-24 **Date** :27.04.2023

GRADATION FOR DRY LEAN CONCRETE
MORTH TABLE-600-1

Client : **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**

Agency **Sri. S.M.Varadarajappa, Contractor, Bangalore.**

Name of Work Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore

Date of Testing :27.04.2023

Material : Dry Lean Concrete

Oven Dry Wt (gm): **10000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
26.5	0	0	0	100	100
19	1083	1083	10.8	89.2	80-100
9.5	2458	3541	35.4	64.6	55-75
4.75	1542	5083	50.8	49.2	35-60
0.600	3271	8354	83.5	16.5	10-35
0.075	968	9322	93.2	6.8	0-8

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Job No.: CACE/BBMP/SMV/W.No.10/2023-24 Date: 30.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Agency	**Sri. S.M.Varadarajappa, Contractor, Bangalore.**
Name of the work	Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2023	30.05.2023	8.270	725.3	32.24
2	02.05.2023	30.05.2023	8.235	718.8	31.95
3	02.05.2023	30.05.2023	8.112	729.3	32.41

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Job No.: CACE/BBMP/SMV/W.No.10/2023-24 Date: 09.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Agency	**Sri. S.M.Varadarajappa, Contractor, Bangalore.**
Name of the work	Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2023	09.05.2023	8.135	511.4	22.73
2	02.05.2023	09.05.2023	8.187	512.6	22.78
3	02.05.2023	09.05.2023	8.190	509.1	22.63

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Client	**Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Agency	**Sri. S.M.Varadarajappa, Contractor, Bangalore.**
Name of the work	Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2023	30.05.2023	8.275	715.2	31.79
2	02.05.2023	30.05.2023	8.289	725.6	32.25
3	02.05.2023	30.05.2023	8.293	719.3	31.97

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Name of the work	Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2023	09.05.2023	8.152	518.3	23.04
2	02.05.2023	09.05.2023	8.165	521.2	23.16
3	02.05.2023	09.05.2023	8.171	512.1	22.76

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Client	**Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Agency	**Sri. S.M.Varadarajappa, Contractor, Bangalore.**
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Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2023	30.05.2023	8.280	713.3	31.70
2	02.05.2023	30.05.2023	8.285	715.8	31.81
3	02.05.2023	30.05.2023	8.292	719.3	31.97

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Client **Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**

Agency **Sri. S.M.Varadarajappa, Contractor, Bangalore.**

Name of the work Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2023	09.05.2023	8.125	513.4	22.82
2	02.05.2023	09.05.2023	8.137	517.6	23.00
3	02.05.2023	09.05.2023	8.180	515.1	22.89

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Date: 30.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Agency	**Sri. S.M.Varadarajappa, Contractor, Bangalore.**
Name of the work	Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2023	30.05.2023	8.262	712.3	31.66
2	02.05.2023	30.05.2023	8.269	716.1	31.83
3	02.05.2023	30.05.2023	8.194	714.8	31.77

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Client	**Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Agency	**Sri. S.M.Varadarajappa, Contractor, Bangalore.**
Name of the work	Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2023	09.05.2023	8.176	513.2	22.81
2	02.05.2023	09.05.2023	8.189	517.1	22.98
3	02.05.2023	09.05.2023	8.144	516.8	22.97

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Agency	**Sri. S.M.Varadarajappa, Contractor, Bangalore.**
Name of the work	Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2023	09.05.2023	8.142	508.9	22.62
2	02.05.2023	09.05.2023	8.125	505.1	22.45
3	02.05.2023	09.05.2023	8.151	511.1	22.72

Note:

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For CIVIL AIM CONSULTANTS & ENG

Authorised Signator

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/SMV/W.No.10/2023-24 Date: 30.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.**
Agency	**Sri. S.M.Varadarajappa, Contractor, Bangalore.**
Name of the work	Improvements to roads and drains in various cross roads of Kempapura and Surrounding areas in Ward No.10, Kempapura BBMP Bangalore
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2023	30.05.2023	8.175	714.7	31.76
2	02.05.2023	30.05.2023	8.172	715.7	31.81
3	02.05.2023	30.05.2023	8.179	717.2	31.88

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Kodigehalli Sub Division
BBMP, Bangalore

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2023	09.05.2023	8.114	510.2	22.68
2	02.05.2023	09.05.2023	8.117	512.9	22.80
3	02.05.2023	09.05.2023	8.134	513.7	22.83

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Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2023	30.05.2023	8.160	705.9	31.37
2	02.05.2023	30.05.2023	8.166	706.7	31.41
3	02.05.2023	30.05.2023	8.172	708.2	31.48

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Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2023	09.05.2023	8.129	514.5	22.87
2	02.05.2023	09.05.2023	8.125	517.5	23.00
3	02.05.2023	09.05.2023	8.126	519.7	23.10

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